

ABSTRACT

A magnetic calibration device comprises a mount supporting a magnetic sensor card being detachably attached and comprising at least one magnetic sensor to be calibrated and connected to a first analog electronic circuit with a current source and a first analog to digital converter. A coil card is further detachably attached and comprises three coils arranged substantially orthogonal to each other and connected to a second analog electronic circuit with a second analog to digital converter. A connection such as a cable or a wireless link provides a supply voltage to the first and second analog electronic circuits, respectively, and guides digital signals from the first and second analog to digital converters, respectively, to at least one processing unit. A magnet generates a substantially homogeneous and constant calibration magnetic field, and a rotator rotates said cards in said calibration magnetic field around two substantially orthogonal axes.